

HANNSPREE



26"/32"/37"

Liquid Crystal Display  
Television

MAK-000039

User's Manual

HANNSPREE, INC.  
[www.hannspree.com](http://www.hannspree.com)

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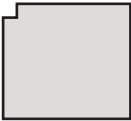
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## Regulatory Information

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### FCC Compliance Statement<sup>1</sup>

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### Additional Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

**Warning:** The Federal Communications Commission warns that changes or modifications of the TV not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

---

1. applies only to products purchased in the United States of America

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## **DOC Compliance Notice<sup>1</sup>**

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications. This device complies with Canada ICES-003 Class B.

## **CE Conformity Statement<sup>2</sup>**

This device complies with the requirements set out in the Council Directive on the approximation of the laws of the Member States relating to Electromagnetic Compatibility (89/336/EEC) and the Amendment Directive (92/31/EEC), Low-Voltage Directive (73/23/EEC) and the Amendment Directive (93/68/EEC).

- 
1. applies only to products purchased in Canada
  2. applies only to products purchased in the European Union

## Description of Warning Symbols



### Before You Proceed

1. Read all Safety Notices and instructions in this User's Manual carefully before either plugging in or turning the TV on.
2. Keep this User's Manual in a safe place for future reference. Keep the box and packaging in case the TV needs to be shipped in the future.
3. Follow the TV and warning label instructions.
4. Any uses, operations, changes, alterations or modifications of the TV that do not follow the instructions in this manual will void this TV's warranty.



### CAUTION

RISK OF ELECTRIC SHOCK  
DO NOT OPEN



### WARNING



This symbol is used to alert users to pay attention to important descriptions regarding usage, maintenance (repair), and additional important information related to this TV.

### CAUTION



This symbol is used to alert users to the risk of electric shocks due to dangerous and uninsulated components.



## Safety Notices

---



### Installation Safety Notes

#### Antenna

We suggest that you use an outdoor antenna to get the best signal possible unless you have cable TV or a centralized indoor antenna system. You may, however, use an antenna indoors if it is placed in a location free from interference.

#### Location

Avoid allowing the TV to get prolonged exposure to sunlight or other strong sources of heat. Leave sufficient distance between the TV and the wall to provide enough space for the emission of heat.



## WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

This device uses a VGA connector to connect to a PC. To reduce the influence of mains frequency on the source signal, use a VGA monitor cable with ferrite shield.

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# IMPORTANT SAFETY INSTRUCTIONS

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- 1 Read these instructions.
  - 2 Keep these instructions.
  - 3 Heed all warnings.
  - 4 Follow all instructions.
- 



- 5 Do not use this apparatus near water.
- 



- 6 Clean only with dry cloth.
- 



- 7 Do not block any ventilation openings. Install in accordance with manufacturer's instructions.
- 



- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
-



- 
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

**NOTE: Applies to US only.**

- 
- 10 Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.



- 
- 11 Only use attachments/accessories specified by the manufacturer.



- 
- 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

- 
- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
-



- 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

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## CAUTION



These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

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### Note:

The LCD TV is for entertainment use only and visual display tasks are excluded.

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## Personal Safety

1. To avoid overloading the power supply, never plug too many electrical devices into an outlet, power strip, or extension cable.
  2. Dangerous high-voltage electric power components are located inside the TV. To avoid electric shock, do not disassemble the casing.
  3. Do not place or drop metals, small objects, or flammable materials in the vent of the TV.
  4. If the TV is dropped, falls down, or is otherwise damaged, unplug the power cord immediately and contact an authorized service technician.
  5. If any fluid is sprayed or dropped into the TV, contact an authorized service technician.
  6. The screen of the TV is made of glass. Avoid hitting or scraping it. If the screen is broken, do not touch the broken glass.
  7. Do not allow children to use the TV unattended.
  8. Be careful when disconnecting the power plug. Hold the plug. Do not attempt to disconnect the plug by pulling on the power cord.
- 

## Installation

1. Do not place the TV in locations where there is excessive steam or dust.
  2. Avoid blocking the TV's vents, do not place the TV on a bed, sofa, carpet, or in a sealed cabinet.
  3. Install the outdoor antenna away from power transmission lines to avoid possible danger.
-



## **Preface**

---

Thank you for purchasing a Hannspree Liquid Crystal Display Television (LCD TV). Your new TV will allow you to enjoy superior audio and video while enriching your lifestyle with advanced technology.

Please carefully read this manual in its entirety before setting up, using or operating your TV. To ensure the safe and correct installation and operations of the TV, it is important that the safety and operation instructions in this manual are followed.

This instruction manual is designed to assist you in setting up and using the TV. The information in this manual has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this manual is subject to change without notice.

To the extent allowed by applicable law, Hannspree Inc. (“Hannspree”) shall not be liable for direct, indirect, special, exemplary, incidental or consequential damages arising from any defect or omission in this manual, even if advised of the possibility of such damages in advance.

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Hannspree products incorporate High-Definition Multimedia Interface (HDMI™) technology.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

## 1.1 Package Contents

Make sure the following components are included in the box. Please contact Hannspree Customer Service immediately if anything is missing or damaged.

- TV
- User's manual
- Quick start guide
- Warranty and service manual
- Power cord
- Remote control and batteries
- Wire cable kit

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## 1.2 Introducing the TV

You can watch NTSC broadcast or cable television channels, and easily connect a VCR, STB or DVD player to the standard CVBS and S-Video input ports located at the rear and/or side of the unit. You can also use the TV as a monitor for your PC by connecting it through the D-sub port.

Convenient control buttons located on the TV and a handy remote control let you change channels, adjust the volume, and change display settings through an easy-to-use on-screen display menu system. The built-in stereo speakers provide full rich sound and a convenient audio output port lets you connect to an external audio system or earphones.

### 1.2.1 Features

- Built-in TV tuner
- Audio/Video support:
  - Stereo audio inputs
  - Composite video inputs
  - Component video input
  - S-Video inputs
  - 3.5 mm stereo headphone output
  - VGA input
  - HDMI input
  - SPDIF (optic) out
  - R/L/Subwoofer (2.1ch) out
- On-Screen Display (OSD) menu system
- Multi-channel Television Sound (MTS) with SAP
- Built-in stereo speakers
- Image Enhancement Technology
  - 3:2 pull down
  - 3D Comb Filter
- Noise Reduction
- Advanced de-interlacing
- Edge Enhancement
- Memory card reader (selected models only)

#### Note:

The supporting devices mentioned in this manual may vary on different models. For more information, see quick start guide.







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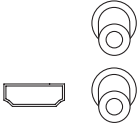






## 1.2.2 Control Panel

Description	Icon	Function
Power/ Power LED	<b>POWER</b>	Turns the TV on and off. Indicates power status.
Source	<b>SOURCE</b>	Selects the input source to be displayed (TV, DTV, AV1, AV2, AV3, AV4, AV5, AV6(PC), AV7(HDMI), AV8 (E-Card)). AV8 is available on selected models only.
Menu	<b>MENU</b>	Turns the On-Screen Display (OSD) menu on and off.
Select channel	<b>channel up (CH ▲) channel down (CH ▼)</b>	Changes channels. Press channel up to increase the channel number. Press channel down to decrease the channel number. In PC or AV mode, press either button to return to TV mode.
Adjust volume	<b>volume up (VOL +) volume down (VOL -)</b>	Press volume up to increase the audio volume. Press volume down to decrease the audio volume.
Memory card slot (selected models only)		Insert a Compact Flash (CF), Micro drive (MD), Smart Media (SM), Secure Digital (SD), Multi Media Card (MMC), or Memory stick (MS-Pro) card into this slot to view the contents of the memory card. Use the memory card feature to view the contents.

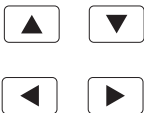
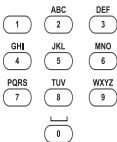




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### 1.2.3 Input and Output Jacks





Description	Connector	Function
AV1 (R/L/V)		Use the AV1 input to connect an external device, such as a VCR, STB, or a DVD player with a composite output. <b>Audio Input (R/L):</b> red and white audio cables. <b>Video Input (V):</b> yellow (video) cable.
AV2 (S/V/L/R)		Use the AV2 input on the side panel to connect an external device, such as a VCR, STB, or a DVD player. <b>Audio Input (L/R):</b> white and red audio cables. <b>Video Input (S-Video or Video):</b> S-Video cable or yellow (video).
AV3 (R/L/S)		Use the AV3 input to connect an external device, such as a VCR, STB, or a DVD player. <b>Audio Input (R/L):</b> red and white audio cables. <b>Video Input (S):</b> S-Video cable.
AV4 / AV5 (R/L/Y/PB/PR)		Use the AV4 / AV5 inputs to connect an external device, such as a VCR, STB, or a DVD player with a component output. <b>Audio Input (R/L):</b> red and white audio cables. <b>Video Input (Y/PB/PR):</b> video cables.




Description	Connector	Function
ANT (Antenna/ Cable TV line in)		Connects to an antenna or CATV cable television line.
AC IN		Connects to the included power cord.
AV6 (PC)		Connects to a PC's VGA port.
AV7 (HDMI)		Connects to devices such as a DVD player or set-top box.
LINE IN		Connects to a PC's line/audio out port.
LINE OUT (R/L)		Connects to external audio amplifier.
SUBWOOFER OUT		Connects to a subwoofer speaker with audio amplifier.
EARPHONE OUT		Connects to earphones.
RS-232		For factory use only. Not available for users.
OPTICAL OUT		Use the optical digital out connector to connect an audio decoder or audio/video processor.

## 1.2.4 Remote Control

Description	Icon	Function
Menu	<b>Menu</b>	Press this button to turn the On-Screen Display (OSD) menu on and off.
Arrow		Press ▲ / ▼ / ◀ and ▶ to scroll through the on-screen display menus. In memory card mode, press the arrow buttons to navigate menus, or to pan a picture when zooming in on a photo in Photo mode.
Numbers 0 ~ 9		Use to select a channel directly. Press 0-9 to enter the channel number (press 1 and 0 for channel 10). You can key in the alphabet in channel name editing function.
Recall		Press this button to return to the last channel selected. In memory card mode, press this button to start and end the slideshow.
CC		Press this button to enable the closed captions/subtitles (Only available in the United States of America). In memory card mode, press this button to rotate a picture when in Photo mode.
Power		Turns the TV power on or off.
Adjust volume		Press volume + to increase the audio volume. Press volume – to decrease the audio volume.

Description	Icon	Function
Mute		Press this button to eliminate sound. Press mute again or press the volume adjust buttons to restore sound.
Select channel		Changes channels. Press channel $\Delta$ to increase the channel number. Press channel $\nabla$ to decrease the channel number. In PC or AV mode, press either button to return to TV mode.
MTS		Press this button to change the multi sound selection of the TV channel. In memory card mode, press it to toggle the sound effect when playing the music.
Wide		Press this button to switch between wide screen and other modes (4:3 – 16:9 – Panoramic – Zoom). In memory card mode, press this button to stop proceeding operation.
Hold		Press this button to hold or skip forward through tracks being played from the memory. In memory card mode, press this button to go to the next line.
Favorite		Press these buttons to select or store your favorite channels. (e.g. To set Ch. 33 as FAV1, go to Ch. 33 and press <b>Hold</b> , and then press FAV1 to save your settings.)
TV		Press this button to select TV source mode.

Description	Icon	Function
Source	<b>Source</b>	Press this button to display the AV source list on the screen.
OK		Press this button to execute the selection or setting and return to the last menu when using on screen display menus. In memory card mode, press this button to confirm a selection or play/pause the file playback.
Sleep		Press this button repeatedly to set the length of time until the TV turns off. Cancel the timer by pressing until the displayed time disappears. In memory card mode, press this button to zoom in a picture by 1x, 2x, 3x, or 4x ratio (magnification varies by input format).
Display	<b>Display</b>	Press this button to show messages on the screen, such as the channel number, mode and others. Press this button again to close the displayed message.
Electronic Program Guide		Press this button to view the electronic program guide (EPG) (available only for selected models) . In memory card mode, press this button to toggle between the EQ mode for music or the slideshow mode for photo.
DTV Information		Press this button to display information about the current channel (available only for selected models). In memory card mode, press this button to repeat the playing operation.

Description	Icon	Function
Twin Mode		Press this button to activate the picture by picture mode (available only for selected models). In memory card mode, press this button to return to the previous file.
Swap		Press this button to swap the activation of the primary and secondary sources for Twin mode. In memory card mode, press this button to fast rewind.
Fast Forward		In memory card mode, press this button to fast forward.

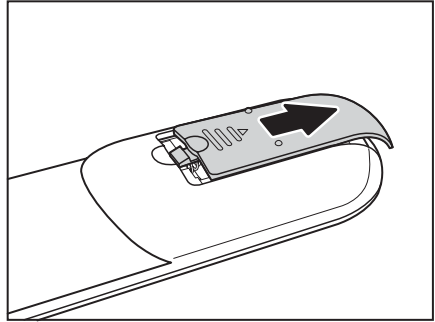
**Note:**

**The four ellipses (red, green, yellow, and blue) have favorite channel function when the TV standard is set to NTSC.**

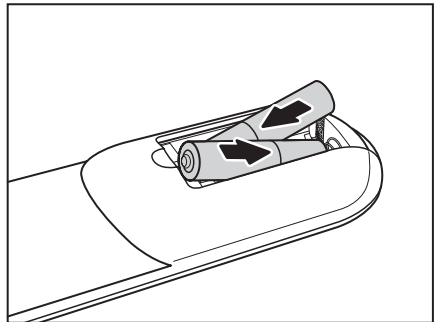
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## 1.2.5 Inserting the Remote Control Batteries

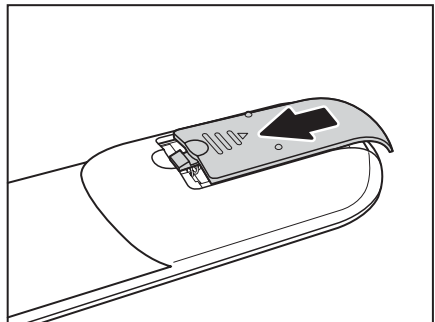
- 1 Open the battery compartment cover at the back of the remote control (A).



- 2 Insert the batteries paying attention to the polarity markings inside the battery compartment (B).



- 3 Replace the battery compartment cover (C).





---

# CAUTION



- If the remote control is not used for a long period, remove the batteries and store them properly.
- Handle damaged or leaking batteries carefully, and wash hands with soap if they come in contact with leaked chemical fluids.
- If your remote control has two batteries, do not mix new and old batteries or the life of the new batteries will be shortened. Chemical fluids may leak from the old batteries.
- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.
- Refer to your local recycling or waste disposal rules and contact a local waste disposal vendor to dispose of used batteries.
- The remote control cover may have a magnet in it, so do not place magnetic sensitive items such as watches, credit cards, or flash media close to the cover.
- Do not use force when pulling the remote control cover open; you may damage the hinge.

### 2.1 Basic Connections

The following sections provide users with some basic instructions to use the TV. Please read them carefully before you start utilizing the functions. Connecting the Power Cord and Turning On

- 1 Connect the power cord to AC IN input jack on the rear panel of the TV.
- 2 Insert the plug at the other end of the power cord into a power outlet.
- 3 Move the Main Power Switch to the on position to supply power to the TV.

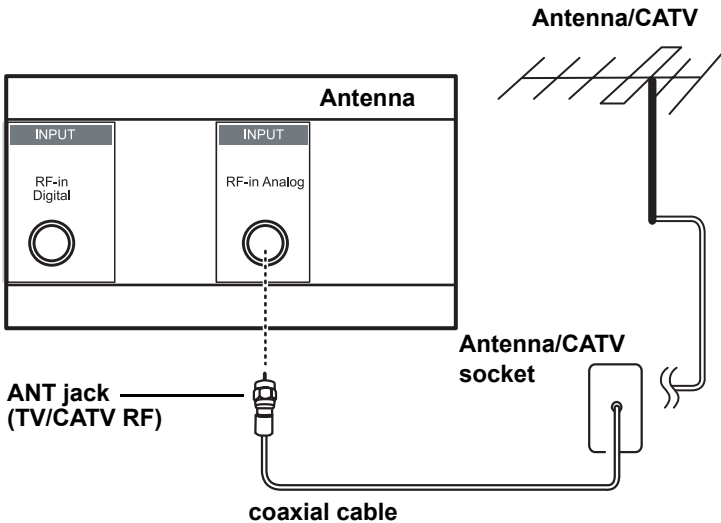
**Note:**

**If the TV is not in use for a long period, turn off the main power switch.**

---

### 2.1.1 Connecting to an Antenna or Cable TV

- 1 Connect one end of the VHF/UHF (Antenna) or CATV cable to ANT Jack (RF-in Analog) on the back of the TV.
- 2 Connect the other end of the VHF/UHF (Antenna) or CATV cable to the antenna socket or CATV cable.



#### Notes:

- If you cannot receive channels after connecting to an antenna or cable TV line, try scanning for channels. See “Auto Search” on page 47.
- RF-in digital input is available for DTV built-in models only.

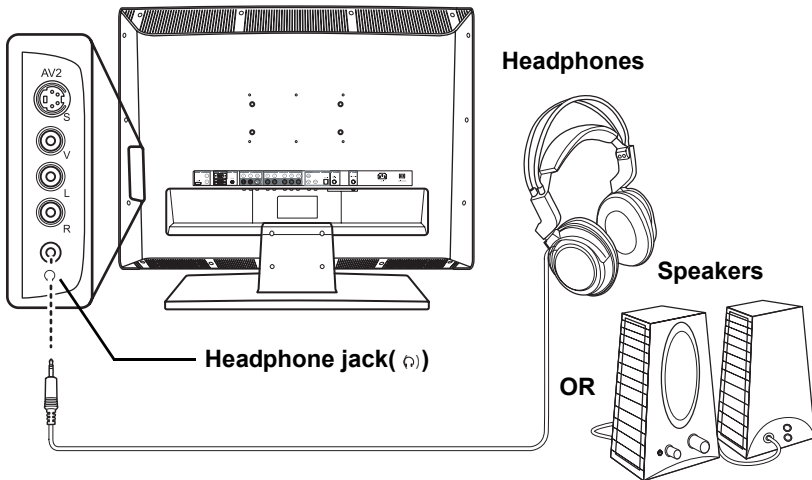
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## 2.2 Connecting External Devices

Connect external devices such as VCRs, STBs, or DVD players to the TV using the AV1, AV2, AV3, AV4, and AV5 ports on the back or side of the TV.

### 2.2.1 Connecting External Earphones

External earphones may be used to listen to the TV rather than using the built-in speakers. Connect external headphones to the earphone line out port as illustrated.



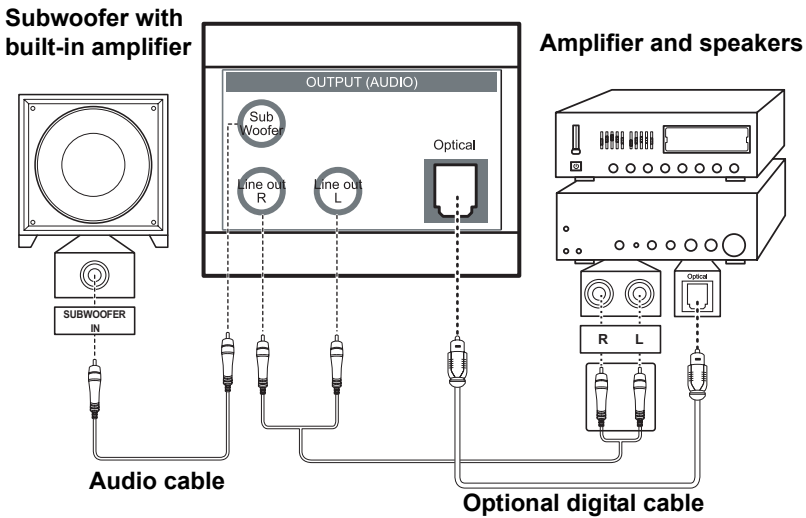
#### Notes:

- External earphones are not included with the TV.
- The built-in TV speakers do not output sound when earphones are plugged in.
- Location of the connectors varies according to the TV model.

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## 2.2.2 Connecting an Amplifier Using Analog Audio

Connect an external amplifier of speakers to the line out port to provide better sound quality. Refer to the following illustration.



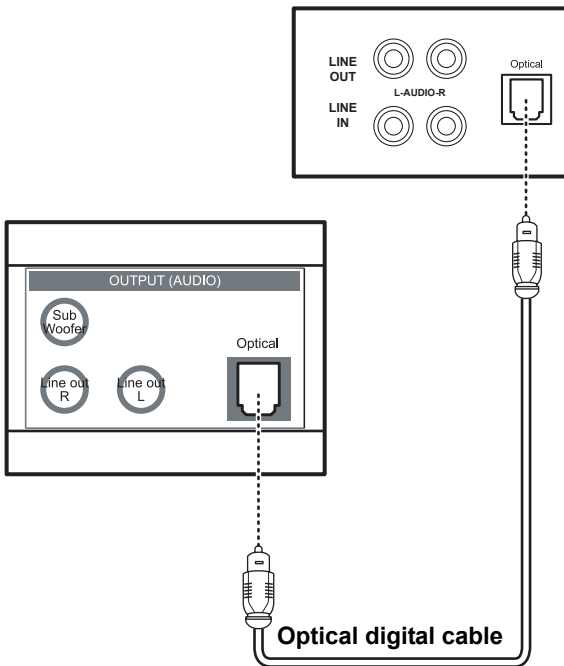
Cables and connectors are color-coded (red, white).

---

### 2.2.3 Connecting an Amplifier Using Digital Audio

Use the optical digital out connector to connect an audio decoder or audio/video processor when using a Digital TV (ATSC) receiver.

Refer to the following illustration to connect optical digital out.

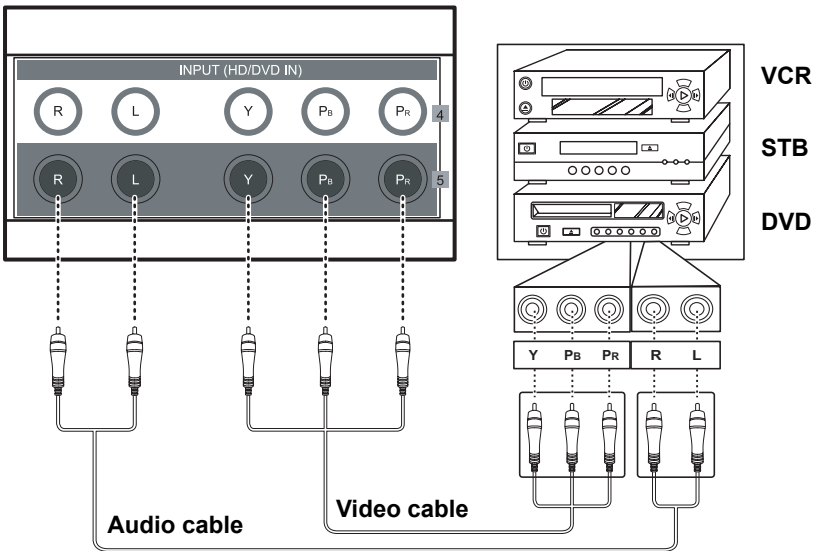


**Note:**

The RF-in digital input is available only for selected TV models.

## 2.2.4 Connecting to a VCR/STB/DVD Player Using Component Video

The illustration presented here shows how to connect your TV to a VCR / STB / DVD player using the AV4/AV5 component video ports. Actual connections may vary according to the make and model of your device.

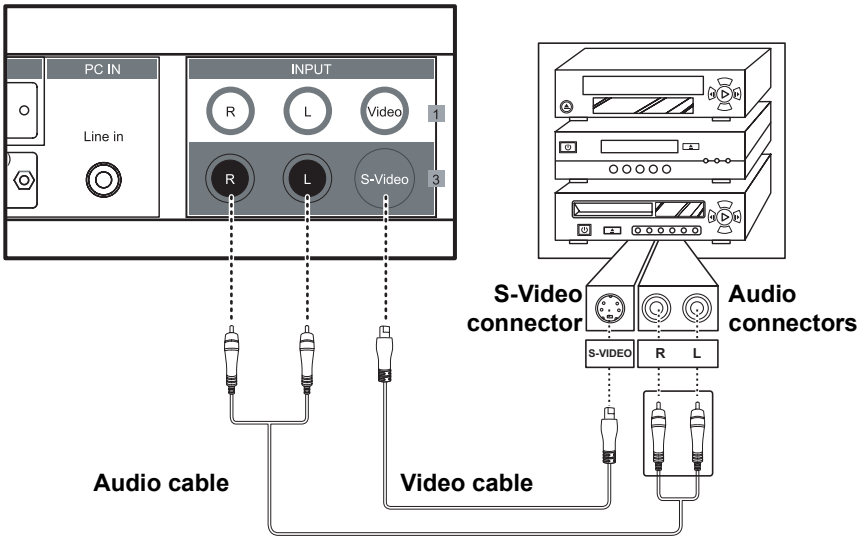


Cables and connectors are color-coded (red, white, green, blue, red).

---

## 2.2.5 Connecting to a VCR/STB/DVD Player Using S-Video

The following illustration shows how to connect the TV to a VCR / STB / DVD player using the AV3 S-Video port. Actual connections may vary according to the make and model of the device.



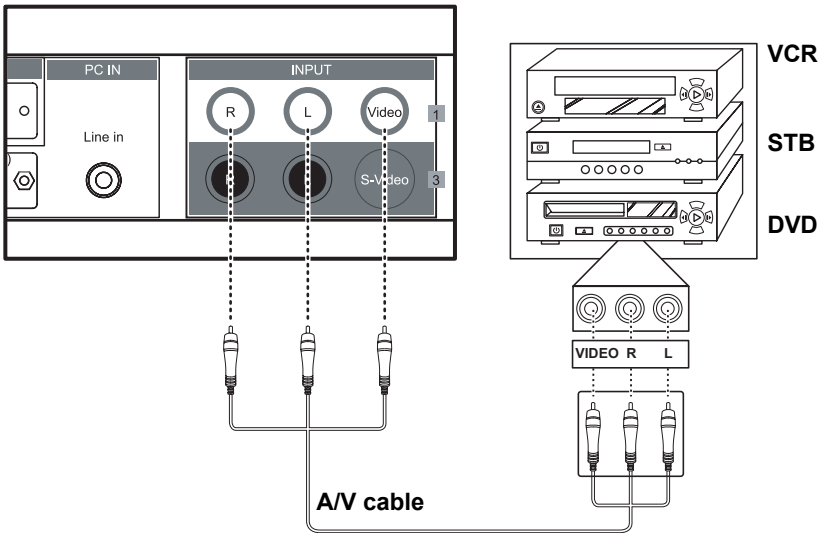
Cables and connectors are color-coded (red, white, yellow).



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## 2.2.6 Connecting to a VCR/STB/DVD Player Using Composite Video

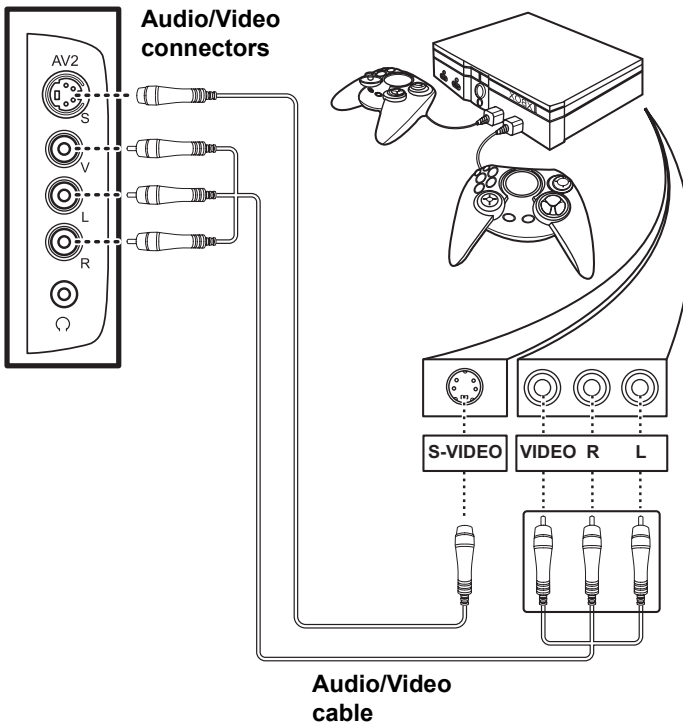
The illustration presented here shows how to connect your TV to a VCR / STB / DVD player using the AV1 composite video port. Actual connections may vary according to the make and model of your device.



Cables and connectors are color-coded (red, white, yellow).

## 2.2.7 Connecting to a Video Game Player

The following illustration shows how to connect the TV to a video game player using the AV2 port. Actual connections may vary according to the make and model of the device.



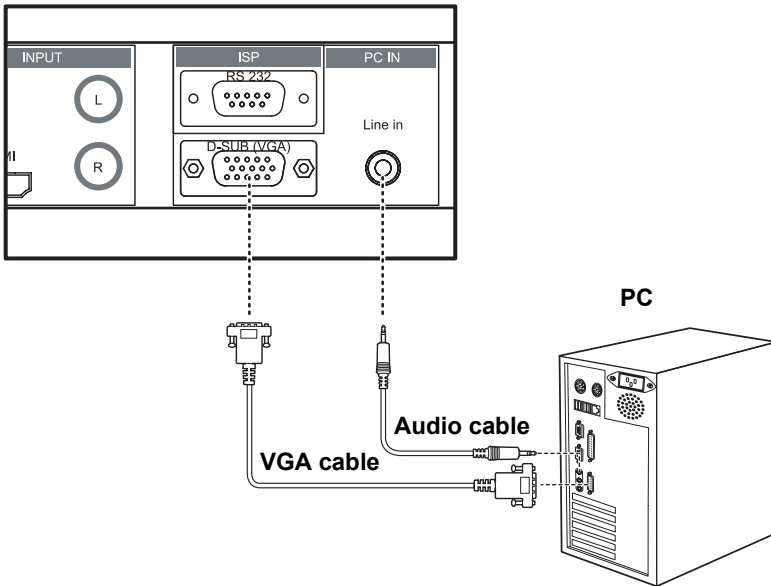
### Notes:

- When connecting the S-Video connector and AV connectors at the same time, the priority is given to the S-Video connector.
- Location of the connectors varies according to the TV model.

---

## 2.2.8 Connecting to a PC

Connect the TV to your PC to use it as the monitor using the D-Sub port as shown. Connect the D-Sub port of the TV to the D-Sub output of the PC. Connect the line out port of the PC to the line in port of your TV to listen to audio from the PC.



### Note:

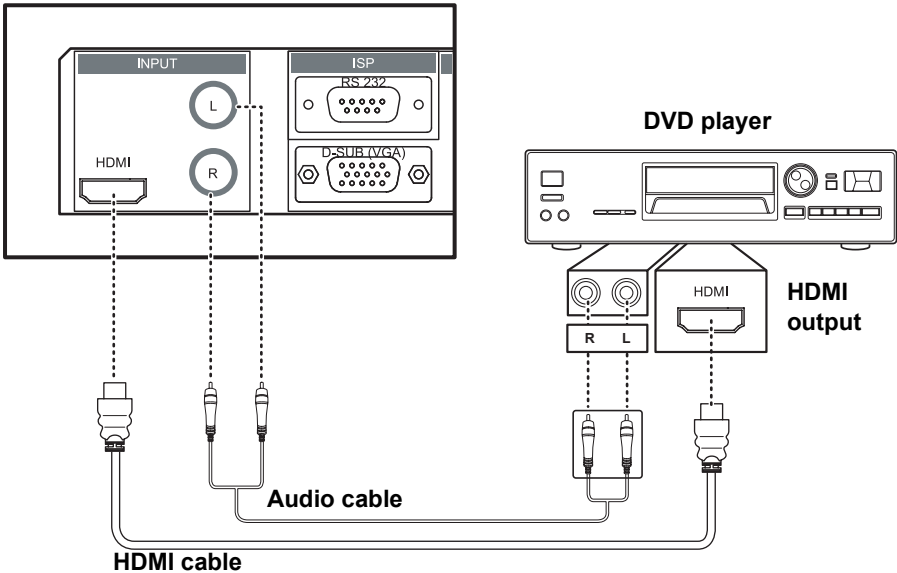
Location of the connectors varies according to the TV model.

---

## 2.2.9 Connecting to HDMI

HDMI (High Definition Multimedia Interface) assures that the best video signal is always sent from source (HDTV signal, DVD player) to the TV.

Refer to the following illustration to connect an HDMI device to the TV.



### Notes:

- When the HDMI cable is connected, connecting the audio cable is not necessary. However, it is necessary to do so if the HDMI-DVI-D is connected
- The audio output of a 2-ch or 2.1-ch DVD Player is from the amplifier/speaker.

---

## **2.3 Using the TV**

### **2.3.1 Using the Remote Control**

For best results, use the remote control within a proper distance from the front of the TV. Do not exceed an angle of 30 degrees when pointing at the TV.

**Notes:**

- **The operational distance may be shortened when the signal sensor is directly exposed to strong light.**
- **Aim the transmitter on the remote control at the signal sensor and ensure that there are no obstacles between them.**

### **2.3.2 Turning the TV On and Off**

- 1** Press power on the remote control or on the control panel. The power LED indicator on the front of the TV changes from red to green, indicating that the power is on.
- 2** Press power again. The power LED changes from green to red, indicating that the TV is off.

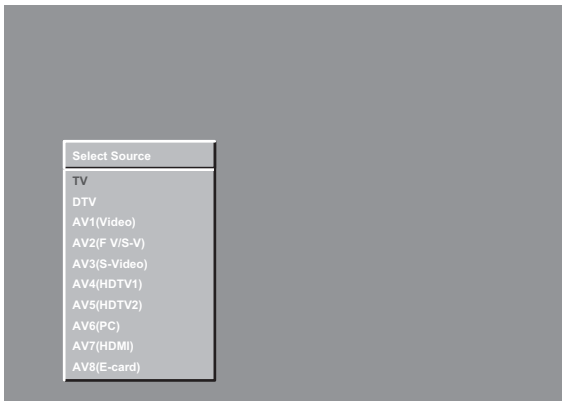
### **2.3.3 Selecting Channels**

- Press channel up on the remote control or control panel to increase the channel number by one. Press channel down to decrease the channel number by one.
- Enter the specific channel number by pressing the number buttons on the remote control. The channel number is displayed on the screen.

---

## 2.3.4 Switching Source Signals

Press source on the control panel to select different sources. A screen appears with all sources listed. (Some of the sources are available only for selected models.)



Press the channel up and down keys to highlight a source and press source to confirm.

## 2.3.5 Adjusting the Volume

- 1 Press volume up to increase the volume.
- 2 Press volume down to decrease the volume.
- 3 Press mute to eliminate sound. a MUTE icon appears on the top left corner of the screen and sound is turned off.
- 4 Press mute again or press the volume buttons to restore the original volume.

## Adjusting On-Screen Display (OSD) Settings

The On-Screen Display (OSD) menu system provides a quick and simple method to adjust the TV settings. This chapter describes how to change each of the available settings. The OSD menu can be accessed through the buttons either on the front control panel or the remote control.

Button	TV Control Panel	Remote Control
Menu	MENU	MENU
Channel Up	CH ▲	CH ▲
Channel Down	CH ▼	CH ▼
Volume Up	VOL +	VOL +
Volume Down	VOL –	VOL –
Enter	VOL +	OK

### 3.1 OSD Setting Menus

#### Menu Icon Description



#### VIDEO

Enables you to make adjustments to picture settings such as brightness, contrast, sharpness, hue, and create custom configurations.



#### AUDIO

Lets you adjust audio characteristics such as bass and treble, and also enables enhanced audio options such as Surround.



#### PC

In PC mode, enables you to set characteristics such as phase and clock.



Enables you to choose TV or CATV, autoscan for channels, add and delete channels, and edit channel names.

## TV

---



Lets you set the OSD language, set the sleep timer and enable closed captions.

## CUSTOMIZE


---



Enables you to set parental controls to prevent unauthorized access to certain TV content.


## PARENTAL

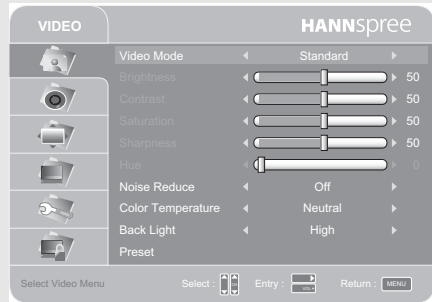
### Notes:









- Press  to exit the menus at any time.
- You can control the OSD with either the remote control or the TV control panel.
- The new setting is confirmed automatically when the OSD times out.



## 3.2 Adjusting Picture Settings

Press  to enter the OSD Main Menu screen.



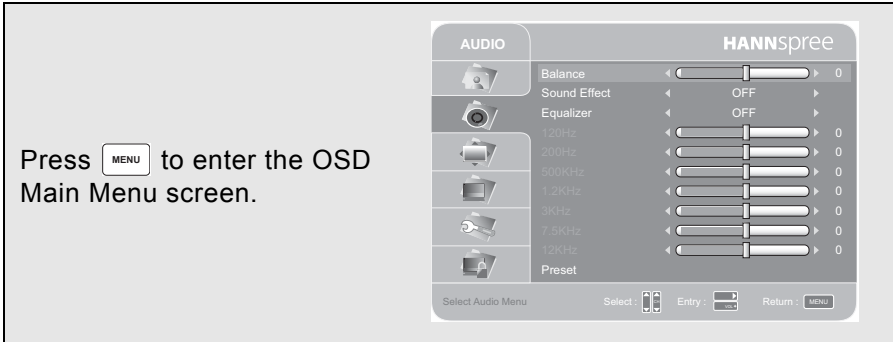
- 1 Press  or  to enter the VIDEO Menu.
- 2 Press  or  to select an option.
- 3 Press  /  to change the mode setting.
- 4 Press  to select the changed setting and return to the VIDEO Menu.
- 5 Press  to exit the OSD menus.

The Picture Mode menu includes the following options.

Option	Description
Video Mode	Enables you to customize the video display. The following options are available:
	Vivid Sets the display for enhanced picture contrast and sharpness.
	Standard Sets the display for normal viewing (default).
	Mild Sets the display to emulate a movie display.
Custom Enables you to set user defined values.	

Option	Description
Brightness	Brightens or darkens the picture.
Contrast	Increases or decreases the contrast. Increasing the contrast makes the colors deeper. Decreasing the contrast makes the colors softer.
Saturation	Adjusts the intensity of the color.
Sharpness	Sharpens or softens picture clarity. Decrease this value to make the pictures softer.
Hue	Increases or decreases the red tint.
Noise Reduce	<p>Noise reduction enables you to reduce the amount of interference in the signal. The following options are available:</p> <ul style="list-style-type: none"> <li>• High</li> <li>• Middle</li> <li>• Low</li> <li>• Off</li> </ul>
	<b>Note: Noise reduction only works for TV and AV1 ~ AV3.</b>
Color Temperature	<p>Color temperature refers to the warm or cool feeling of a color, rather than actual temperature. The following options are available:</p> <p>Cold Gives white colors a bluish tint.  Neutral Gives white colors a neutral tint.  Warm Gives white colors a reddish tint.</p>
Back Light	Sets the LCD backlight. Set this to low to conserve power.
Preset	Erases all customized picture settings and returns all values to factory defaults.

### 3.3 Adjusting Audio Settings



- 1 Press **OK** or **▶** to enter the AUDIO Menu.
- 2 Press **▲** or **▼** to select an option.
- 3 Press **◀** / **▶** to change the mode setting.
- 4 Press **OK** to select the changed setting and return to the AUDIO Menu.
- 5 Press **MENU** to exit the OSD menus.

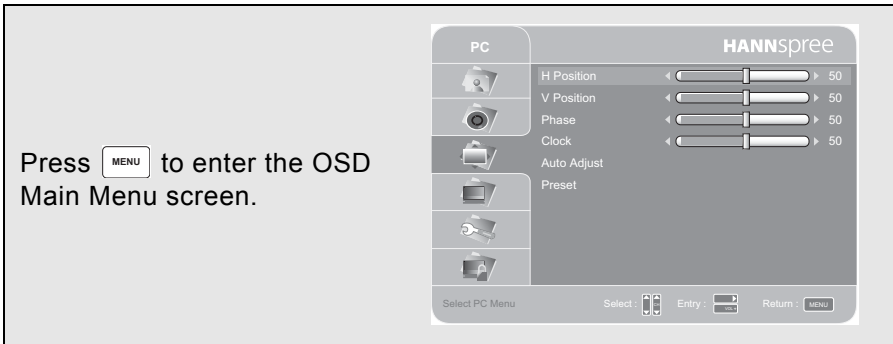
---

The Audio Mode menu includes the following options.

Option	Description
Equalizer	Enables you to adjust equalizer settings. Set this item to Custom to enable you to adjust individual equalizer frequencies. <ul style="list-style-type: none"><li>• LIVE</li><li>• POP</li><li>• ROCK</li><li>• Custom</li></ul>
Balance	Changes the balance between the left and right speakers.
Sound Effect	Toggles between the Surround XT and BBE ViVA HD3D Sound feature.
Preset	Select this to erase all customized audio settings and return all values to factory defaults.

### 3.4 Adjusting PC Settings

If a PC is connected, the PC mode menu items become available. The PC Mode menu includes the following options.



- 1 Press  or  to enter the PC Menu.
- 2 Press  or  to select an option.
- 3 Press  /  to change the mode setting.
- 4 Press  to select the changed setting and return to the PC Menu.
- 5 Press  to exit the OSD menus.

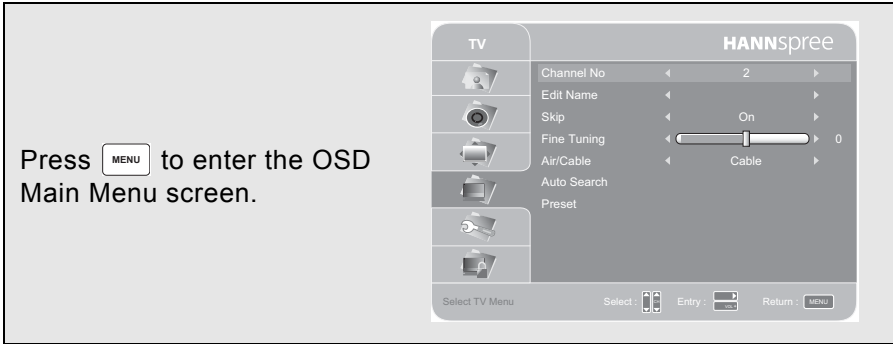
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

Option	Description
H Position	Press press ◀ or ▶ to adjust the horizontal position of the display.
V Position	Press press ▲ or ▼ to adjust the vertical position of the display.
Phase	Enables you to adjust the phase timing.
Clock	Enables you to adjust the clock timing.
Auto Adjust	Press ▶ to allow the TV to adjust the display automatically for best results.
Preset	Press ▶ to select this to erase all customized PC settings and return all values to factory defaults.

**Note:**

The display resolution is based on the PC input signal.

### 3.5 Adjusting TV Settings

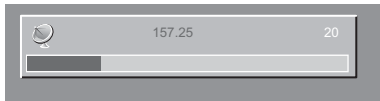


- 1 Press  or  to enter the TV Menu.
- 2 Press  or  to select an option.
- 3 Press  /  to change the mode setting.
- 4 Press  to select the changed setting and return to the TV Menu.
- 5 Press  to exit the OSD menus.

---

The TV Mode menu includes the following options.

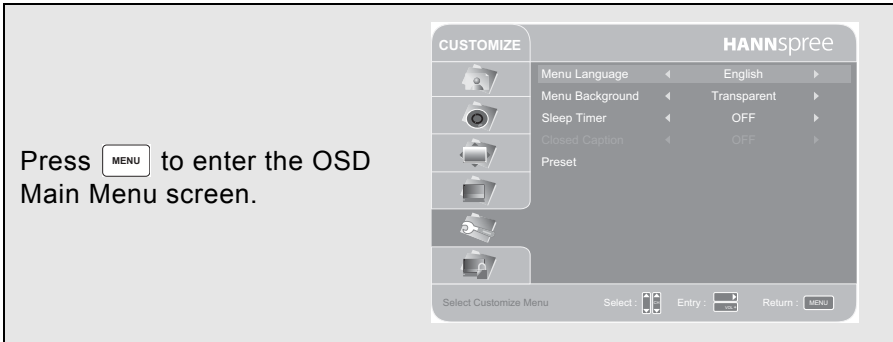
Option	Description
Channel No	Use to select a channel to adjust its settings.
Edit Name	Use the alphanumeric keypad on the remote control to enter a name for the channel. You can use up to five alphanumeric characters for the name.
Skip	Select ON to remove the selected Channel No from the channel list. Select OFF to add the selected Channel No to the channel list.
Fine Tuning	Select this item and press ◀ or ▶ to fine tune a channel for better picture quality.
Air/Cable	Enables you to select the TV source signal. The following options are available: Air           Selects the antenna. Cable        Selects cable TV.
Auto Search	Press ▶ to have the TV automatically scan through all the available channels and assign channel numbers to them.
Preset	Select this to erase all customized TV settings and return all values to factory defaults.





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### 3.6 Making Custom Settings (Available in the US and Canada only)






- 1 Press  or  to enter the CUSTOMIZE Menu.
- 2 Press  or  to select an option.
- 3 Press  /  to change the mode setting.
- 4 Press  to select the changed setting and return to the VIDEO Menu.
- 5 Press  to exit the CUSTOMIZE menus.

The Custom Mode menu includes the following options.


Option	Description
Language	Select from the following language options: <ul style="list-style-type: none"><li>• English</li><li>• Français</li><li>• Español</li></ul>

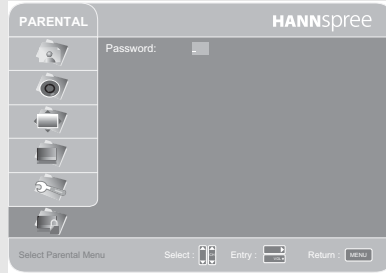
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**Note:** OSD language may vary from region to region.

Option	Description
Menu Background	Enables you to set the OSD background to be transparent or opaque.
Sleep Timer	<p>Lets you set the TV to turn off after a set time. Select from the following sleep timer options.</p> <ul style="list-style-type: none"> <li>• 120 minutes</li> <li>• 90 minutes</li> <li>• 60 minutes</li> <li>• 30 minutes</li> <li>• Off</li> </ul> <p>You can also press  on the remote control to enable sleep mode.</p> <p>When sleep mode has been set, press  to view the amount of time remaining before the system shuts down. Press  again to reset the timer.</p>
Closed Caption (available in the US only)	<p>Enables closed captions. Select from the following options:</p> <ul style="list-style-type: none"> <li>• CC1 ~ CC4</li> <li>• TEXT1 ~ TEXT4</li> </ul>
Preset	Select this to erase all customized CUSTOMIZED settings and return all values to factory defaults.

### 3.7 Setting Parental Controls (Available in the US and Canada only)


Press  to enter the OSD Main Menu screen.





1 Press  or  to enter the PARENTAL Menu. You are prompted for the password:

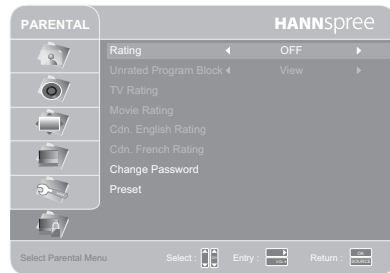
2 Enter the password using the numeric keys on the remote control. The default password is 0000.

3 Press  or  to select an option.

4 Press  /  to change the mode setting.

5 Press  to select the changed setting and return to the VIDEO Menu.

6 Press  to exit the PARENTAL menus.



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The Parental Control Function (V-CHIP) is used to block program viewing based on the ratings sent by the broadcast stations<sup>1</sup>. The United States has two rating systems for viewing contents, TV Parental Guidelines, and movie ratings. The TV Parental Guidelines work in conjunction with the V-CHIP to help parents screen out inappropriate television programs from their children.

Movie ratings are used for original movies rated by the Motion Picture Association of America (MPAA) as watched on cable TV and not edited for television. The V-CHIP can also be set to block MPAA-rated movies.

The Parental menu includes the following options.

Option	Description
Rating	Enables you to select a rating setting. Select Custom to customize all other settings. <ul style="list-style-type: none"><li>• OFF</li><li>• Child</li><li>• Youth</li><li>• Youth Adult</li><li>• Custom</li></ul>
Unrated Program Block	Select this to block or allow viewing of selected unrated content.

---

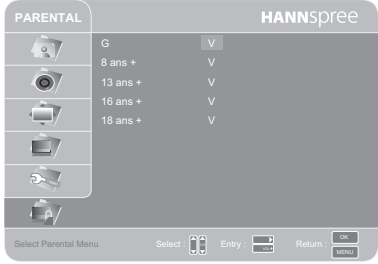

1. Parental functions are only available in the United States of America and Canada and are contingent upon the availability of the TV network programming.

Option	Description
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TV Rating	Enables you to block or allow viewing of rated television content.	<table border="1"> <thead> <tr> <th>Rating</th> <th>ALL</th> <th>FV</th> <th>V</th> <th>S</th> <th>L</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>TV-Y</td> <td>V</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TV-Y7</td> <td>V</td> <td>V</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TV-G</td> <td>V</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TV-PG</td> <td>V</td> <td></td> <td>V</td> <td>V</td> <td>V</td> <td>V</td> </tr> <tr> <td>TV-14</td> <td>V</td> <td></td> <td>V</td> <td>V</td> <td>V</td> <td>V</td> </tr> <tr> <td>TV-MA</td> <td>V</td> <td></td> <td>V</td> <td>V</td> <td>V</td> <td></td> </tr> </tbody> </table>	Rating	ALL	FV	V	S	L	D	TV-Y	V						TV-Y7	V	V					TV-G	V						TV-PG	V		V	V	V	V	TV-14	V		V	V	V	V	TV-MA	V		V	V	V	
		Rating	ALL	FV	V	S	L	D																																											
TV-Y	V																																																		
TV-Y7	V	V																																																	
TV-G	V																																																		
TV-PG	V		V	V	V	V																																													
TV-14	V		V	V	V	V																																													
TV-MA	V		V	V	V																																														

Movie Rating	Enables you to block or allow viewing of rated movie content.	<table border="1"> <thead> <tr> <th>Rating</th> <th>V</th> </tr> </thead> <tbody> <tr> <td>G</td> <td>V</td> </tr> <tr> <td>PG</td> <td>V</td> </tr> <tr> <td>PG-13</td> <td>V</td> </tr> <tr> <td>R</td> <td>V</td> </tr> <tr> <td>NC-17</td> <td>V</td> </tr> <tr> <td>X</td> <td>V</td> </tr> </tbody> </table>	Rating	V	G	V	PG	V	PG-13	V	R	V	NC-17	V	X	V
		Rating	V													
G	V															
PG	V															
PG-13	V															
R	V															
NC-17	V															
X	V															

Cdn English Rating	Enables you to block or allow viewing of content rated according to Canadian English standards.	<table border="1"> <thead> <tr> <th>Rating</th> <th>V</th> </tr> </thead> <tbody> <tr> <td>C</td> <td>V</td> </tr> <tr> <td>C6+</td> <td>V</td> </tr> <tr> <td>G</td> <td>B</td> </tr> <tr> <td>PG</td> <td>B</td> </tr> <tr> <td>14+</td> <td>B</td> </tr> <tr> <td>18+</td> <td>B</td> </tr> </tbody> </table>	Rating	V	C	V	C6+	V	G	B	PG	B	14+	B	18+	B
		Rating	V													
C	V															
C6+	V															
G	B															
PG	B															
14+	B															
18+	B															

Option	Description
Cdn. French Rating	<p>Enables you to block or allow viewing of content rated according to Canadian French standards.</p> 
Change Password	<p>Enables you to change the password. Enter the old password followed by the new password to change it.</p> 
Preset	<p>Select this to erase all customized PARENTAL settings and return all values to factory defaults.</p>

**Note:**  
**The French and English ratings are for the US and Canada only.**

Refer to the following table for TV rating information:

TV RATINGS	<b>FV</b> <i>Fantasy Violence</i>	<b>V</b> <i>Violence</i>	<b>S</b> <i>Sexual Situations</i>	<b>L</b> <i>Adult Language</i>	<b>D</b> <i>Sexually Suggestive Dialog</i>
TV-Y (All children)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TV-Y7 (Directed to older children)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TV-G (General audience)	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TV-PG (Parental guidance suggested)	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TV-14 (Parents strongly cautioned)	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TV-MA (Mature audience only)	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Block Content	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

:The content rating can be set, but this rating is not normally broadcast by TV stations.

:The content rating can be set.

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Refer to the following table for movie rating information.

<b>MPAA RATINGS</b>		
G	GENERAL AUDIENCES	Suitable for all ages.
PG	PARENTAL GUIDANCE SUGGESTED	Some material may not be suitable for children.
PG-13	PARENTS STRONGLY CAUTIONED	Some material may be inappropriate for children under 13.
R	RESTRICTED	Under 17 requires accompanying parent or guardian.
NC-17	NO ONE 17 OR UNDER ADMITTED	
X	NO ONE UNDER 18 ADMITTED. X is an older rating that may be used in some older movies.	

More information about the rating systems can be found by visiting these websites:

<http://www.mpa.org>

<http://www.tvguidelines.org>



Situation	Solution
No picture and sound.	<ul style="list-style-type: none"> <li>• Connect the power cord properly.</li> <li>• Check if the power LED is on or not.</li> <li>• Press power on the control panel or remote control.</li> <li>• Press source to cycle through connected video sources.</li> <li>• Press channel up or channel down to switch to other TV stations.</li> <li>• Check the Air/Cable OSD settings. See “Air/Cable” on page 47.</li> <li>• Make sure all cables are connected properly.</li> </ul>
No picture, or poor picture, sound is OK.	<ul style="list-style-type: none"> <li>• Check the antenna and cable connections.</li> <li>• Adjust the brightness in the OSD menus. See “Brightness” on page 41.</li> </ul>
Picture is not in color.	<ul style="list-style-type: none"> <li>• Adjust the saturation in the OSD menus. See “Saturation” on page 41.</li> </ul>
Picture is OK, no sound.	<ul style="list-style-type: none"> <li>• Make sure the source device is functioning properly.</li> <li>• Make sure the audio cable is connected securely.</li> <li>• Turn the mute off.</li> <li>• Press volume up on the control panel or remote control.</li> </ul>
One of the speakers has no sound.	<ul style="list-style-type: none"> <li>• Adjust the balance in the OSD menus. See “Balance” on page 43.</li> </ul>
Cannot receive some TV channels using cable TV.	<ul style="list-style-type: none"> <li>• Try the Auto Program function in the OSD “TV Setting” menu. See “Auto Search” on page 47.</li> </ul>
Want to reset TV settings.	<ul style="list-style-type: none"> <li>• Use the Reset function in the OSD menu.</li> </ul>
Cannot operate menus.	<ul style="list-style-type: none"> <li>• If OSD items are colored in light blue, the system is in a state such that those settings are not available.</li> </ul>
Forgot parental control password.	<ul style="list-style-type: none"> <li>• Use the master password 0928</li> </ul>

Situation	Solution
Screen image turns over.	<ul style="list-style-type: none"> <li>• Make sure the video signal cable is connected properly.</li> </ul>
Snow appears on the screen.	<ul style="list-style-type: none"> <li>• Adjust the location of the antenna, placing it far from roads or sources of interference.</li> <li>• Check the antenna and the video signal line connections.</li> </ul>
Blurred or overlapped images.	<ul style="list-style-type: none"> <li>• Readjust the sharpness setting.</li> <li>• Choose programs with high quality signals.</li> <li>• Adjust the direction of the antenna or change the video signal cable.</li> </ul>
Remote control doesn't work.	<ul style="list-style-type: none"> <li>• Make sure the battery is inserted correctly.</li> <li>• Replace the battery with a new one.</li> <li>• Make sure the TV power cord is plugged in.</li> <li>• Make sure the path between the remote control and the sensor is clear.</li> <li>• Try operating the remote control at a closer distance to the TV. Refer to "Using the Remote Control" on page 36.</li> </ul>

**5****Warranty and Service**

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For complete warranty service information, please refer to the “Warranty and Service Manual” enclosed with your TV.

# 6

## Specifications

LCD Panel Size	26/32/37 inch TFT
Aspect Ratio	16:9
Best Resolution	1366 (horizontal) x 768 (vertical)
TV System	NTSC/ATSC
Video System	AV1: Composite Video (CVBS) AV2: Composite Video (CVBS + S-Video) AV3: Composite Video (S-Video) AV4/AV5: Component Video (YPbPr) VGA: PC in HDMI E-card (Selected models only)
Audio System	AV1, AV2, AV3, AV4, AV5, HDMI: L/R RCA jacks (audio input) RCA jack 3.5 mm earphone out PC Line-in R/L/Subwoofer (2.1 ch out) Optical out E-card (Selected models only)
Built-in Stereo Speakers Output	26"/32" - 8 W x 2, 37" - 15 W x 2
Power Supply	100-240V, 50/60 Hz
Power Consumption	26"/32" - 200W (max.), 37" - 250W (max.)
Component Format	480i, 480p, 576i, 576p, 720p, 1080i

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## PC Mode Support Timing

	Pixel Format	Hor. Freq. (kHz)	Hor. Polarity	Ver. Freq. (Hz)	Vertical Polarity	Standard
1	640*480	31.47	-	60	-	VESA
2	640*480	37.861	-	72	-	VESA
3	640*480	37.5	-	75	-	VESA
4	640*480	NA	NA	85	NA	VESA
5	800*600	35.156	+	56	+	VESA
6	800*600	37.879	+	60	+	VESA
7	800*600	48.077	+	72	+	VESA
8	800*600	46.875	+	75	+	VESA
9	800*600	NA	NA	85	NA	VESA
10	1024*768	48.363	-	60	-	VESA
11	1024*768	56.476	-	70	-	VESA
12	1024*768	60.023	+	75	+	VESA
13	1280*1024	NA	NA	60	NA	VESA
14	640*400	NA	NA	70	NA	VESA
15	720*400	NA	NA	70	NA	VESA

**Broadcast TV:** Broadcasting video signals using high-frequency electromagnetic waves to distribute television channels to viewers (standard TV broadcast).

**CATV:** Community Antenna Television, the original name for cable TV. A television distribution system that uses coaxial cable instead of the traditional radio broadcasting (over-the-air) method to deliver television, FM radio, and other services to consumers.

**Color Temperature:** Adjusting the color temperature enables you to set the intensity of white light. Color temperature is measured in Kelvin (K). Higher color temperatures result in a blue tint. Lower temperatures result in a red tint.

**Hue:** Colors in a color system are measured by hue, saturation and luminance. Hue indicates the predominant color.

**LCD (Liquid Crystal Display):** A display technology that uses rod-shaped molecules (liquid crystals) that flow like liquid and bend light.

**Saturation:** Chromatic purity indicating the amount of white contained in a color. Fully saturated colors are pure colors; less saturated colors appear as pastel shades.

**Stereo:** is the default audio signal belonging to a particular channel.

**S-Video:** Separate video, a video cabling standard used to transmit video by keeping brightness (Y) and color information (C) on separate channels. Most often used with camcorders.

## **HANNSPREE CALIFORNIA, INC.**

843 Auburn Court,  
Fremont, CA 94538, U.S.A.  
TEL: 1-510-360-3000  
FAX: 1-510-360-3001  
www.hannspree.com  
<http://www.hannspree.com/us>

## **Australia**

Corporate website URL:  
<http://www.hannspree.com/au>  
Other entrance URLs:  
<http://hannspree.com.au>  
<http://www.hannspree.com.au>  
For Australian resident:  
Phone: 1-300-HANNSPREE (1-300-426677)

## **New Zealand**

Corporate website URL:  
<http://www.hannspree.com/nz>  
Other entrance URLs:  
<http://hannspree.com.nz>  
<http://www.hannspree.com.nz>  
For New Zealand resident:  
Phone: 0-800-HANNSPREE (0-800-426677)

## **Europe**

Website URL: <http://www.hannspree.com/eu/en>  
<http://euservice.hannspree.net>  
Hannspree Italy Address:  
c/o Centro Uffici Verona Sud, V.le delle Nazioni, 10, 37135 Verona (VR) Italy  
Tel: +39 045 82.71.319  
Fax: +39 045 82.05.732

## **瀚斯寶麗股份有限公司**

台北市114 內湖區瑞光路 480 號12樓  
電話：886-2-87518000  
傳真：886-2-87514755  
[www.hannspree.com](http://www.hannspree.com)

## **瀚斯宝丽科技(上海)有限公司**

<http://cnservice.hannspree.net>  
上海市嘉定区南翔镇蕴北公路1725号5号楼  
邮编：201802  
电话：+86.21.3912.6999  
传真：+86.21.3912.6969

## **Hannspree Hong Kong Service Center**

<http://hkservice.hannspree.net>  
Unit 6, 2/F., No.1 Hung To Road, Kwun Tong, Kowloon,  
Hong Kong  
TEL: (852) 23453822  
FAX: (852) 23453790  
香港九龍觀塘鴻圖道1號2樓206室





